

# REMOTRONIC — ENGINEERED FOR TOTAL RELIABILITY

*For the first time . . . an all transistorized remote control unit  
quality engineered for compatible operation with all types of  
electrically operated equipment.*

Actual Size



Automatic Radio's unique patented circuitry eliminates operational problems common to most other control devices. A strong signal from the pocket sized transmitter provides instant dependable service within the allowable FCC range. Transmitter is powered by standard type self-contained batteries.

The high gain receiver utilizes a switching circuit controlled by the output of an FM detector at a specific audio frequency; thereby giving unlimited availability of channel selection. Operated on any one of three input voltages — 12, 24, or 48 VDC the receiver allows only the signal from the transmitter to pass thus eliminating false triggering of unit.

## FEATURES

### TRANSMITTER

- SOLID STATE CIRCUITRY
- STABLE SIGNAL
- RELIABLE OPERATION
- LOW BATTERY DRAIN
- COMPACT SIZE

### RECEIVER

- SOLID STATE CIRCUITRY
- HIGH GAIN
- FOOLPROOF OPERATION
- LOW POWER CONSUMPTION

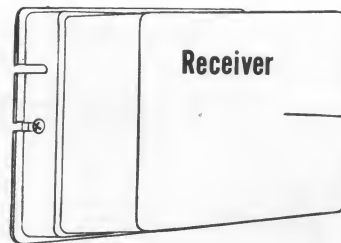
Another Quality Product of



Since 1920

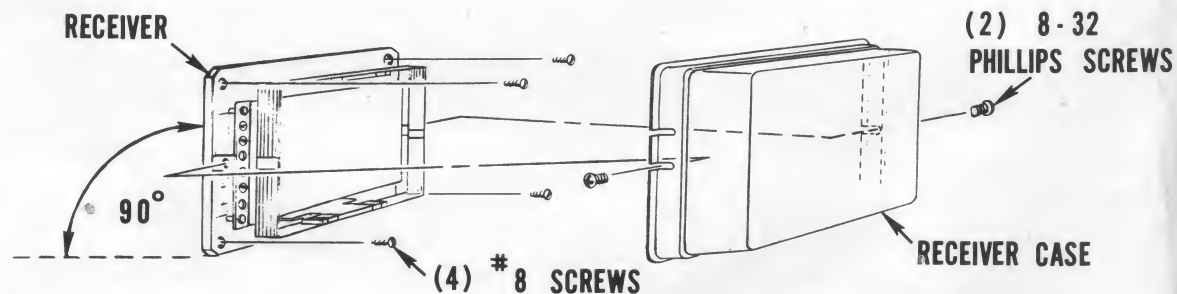
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## RECEIVER MOUNTING INSTRUCTIONS

Fig. 1

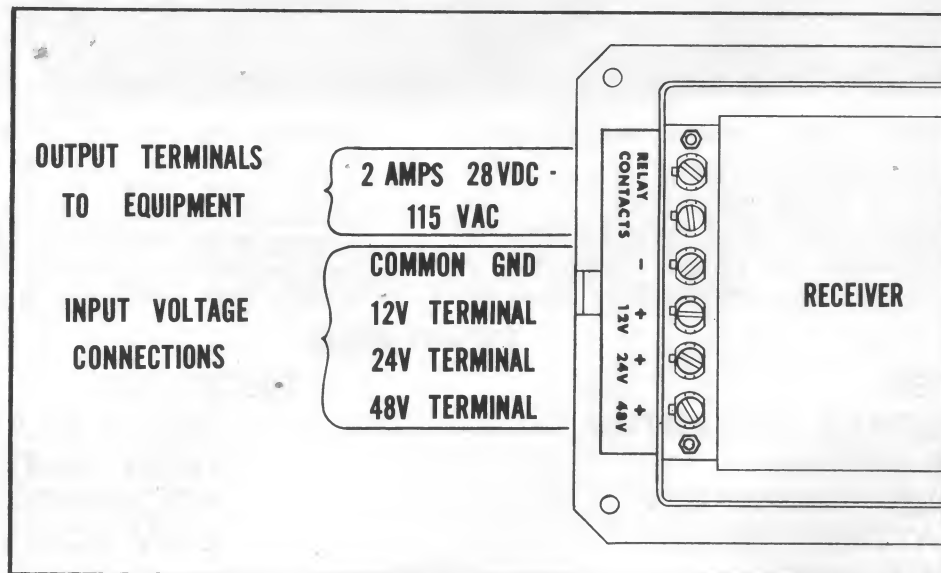


### Installation

1. Remove 2 screws on receiver sides and remove top cover.
2. Mount receiver in vertical plane in selected area as illustrated in Fig. 1.

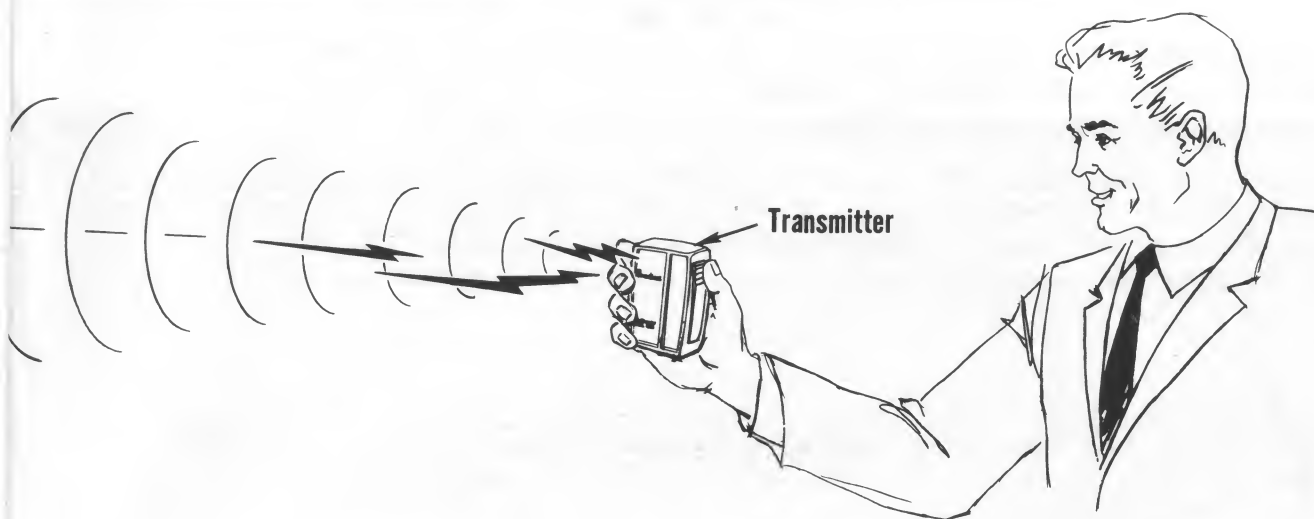
## RECEIVER INPUT - OUTPUT CONNECTIONS

Fig. 2



3. Connect available power source to terminal board. Receiver will operate on a DC supply of 12 volts, 24 volts or 48 volts. Battery power source may be used if desired.
4. Connect switching lead from equipment to be remote controlled to terminals marked "Relay Contacts."

# IC REMOTE CONTROL



## TRANSMITTER

The transmitter has a patented circuit and operates on two (2) self-contained Eveready type No. E523 4-1/2 Volt batteries. These batteries will have an operational life that will exceed a full year. The actual life will be determined by the battery manufacturers shelf life guaranty or warranty. End of battery life will be determined by a neon indicator contained within the transmitter case that will cease to glow when the side action switch is depressed.

### Battery Installation Type #E523

1. Remove front cover by depressing tab on bottom of case.
2. Install two 4.5 Volt Eveready type No. E523 batteries observing polarity as indicated on label.
3. Replace cover.

### Operation

Depress side action switch for instant operation. Hold in vertical plane for best range.

## RECEIVER

This extremely sensitive and selective receiver may be operated on any commercially available power supply with an output voltage of 12, 24 or 48 Volts. The current consumption does not exceed 15 milliamperes which makes it possible to operate it on battery power, if required.

The receiver relay has a double throw single pole switch. The receiver is shipped with the relay output terminated in the normally "off" position. It may be supplied with the relay connected in the "on" position upon request. The relay supplied with the equipment has a maximum rating of 2 amperes at 28 VDC, or 115 VAC volts.

The receiver should be mounted in the vertical position for the most reliable operation. The unit will operate in the horizontal position but operational range will be decreased.

RELAYS WITH INCREASED CONTACT RATING OR OTHER MODES OF OPERATION MAY BE SUPPLIED UPON REQUEST.

## GENERAL INFORMATION

The "Remotronic" is a patented electronic system consisting of a personal type pocket size transmitter and a high gain compact receiver. This unique system was designed with solid state devices representing the latest state of the art.

Electrically operated equipment may be controlled by this device from a distance of approximately fifty feet. Unlike other systems available to the public, this design tested and proven system cannot be falsely operated by thunderstorms, radio amateur equipment, or other non-made interference such as motors or household appliances.

## MODE OF OPERATION

The compact personal transmitter emits low frequency complex signal consisting of a combination AM and FM carrier with a selected audio frequency modulated tone signal. The extremely high gain receiver has appropriate Radio Frequency tuning circuits that permits reception of the complex carrier signal. The output of the Radio Frequency portion of the receiver terminates in a unique detector circuit that extracts the modulated tone signal. The tone signal is amplified and subjected to a resonant transistor filter network that permits operation of a relay. The relay may be used to control many types of operation.

## TYPICAL REMOTE CONTROL OPERATION

1. Garage door opening
2. Light control, either "on" or "off"
3. Home heating control
4. Door opening or closing
5. Motor control for any household appliance
6. Burglar Alarm
7. Fire Alarm
8. Radio or T.V. control
9. Antenna rotation

The output of the transmitter meets all Federal Communication Commission radiation requirements. Each receiver and transmitter is matched to a single (1) pre-set frequency. A number of fixed channels within the frequency band allow the operation of many different systems in close proximity without interference.